

ABSTRACT

Title of the invention: Method and apparatus for drying book and similar paper-based material

A method and apparatus for drying book and similar paper-based materials in wet or frozen state, in which the material dried is exposed to microwave irradiation with frequency from 500 MHz to 10 GHz and in which the book or similar paper-based materials is lined with ceramic slabs before the drying. In this arrangement the materials are subsequently exposed to microwaves under atmospheric or reduced pressure. An apparatus for carrying out the method includes microwave drying oven modified for a batch or continuous operation, which includes adjustable ceramic slabs capable to absorb both moisture and microwaves.

R:\users\imittendorf\email\Hajek et al – new application